NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars.

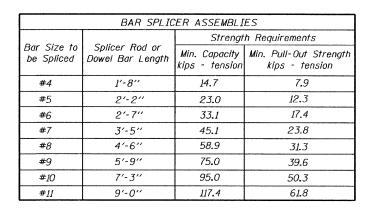
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

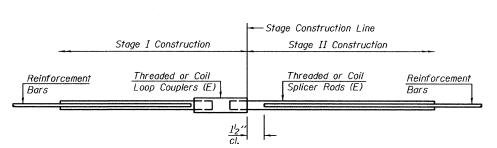
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity (Tension in kips) = 1.25 x fy x  $A_t$ 

Minimum \*Pull-out Strength =  $0.66 \times fy \times A_t$ (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.  $A_t$  = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete





## STANDARD

Bar Size	No. Assemblies Required	Location
#5	24	Deck
#7	8	Vaulted Slab

ILLINOIS DEPARTMENT OF TRANSPORTATION **rjn**group

200 West Front Street

Wheaton, IL 60187

BAR SPLICER ASSEMBLY DETAILS 167th STREET OVER 1-57 FAI RTE 57 SECTION 1011.3 I COOK COUNTY STATION 28+71.53 STRUCTURE NO. 016-2125

DRAWN BY WJV CHECKED BY BLB

The diameter of this part is

equal or larger than the

diameter of bar spliced.

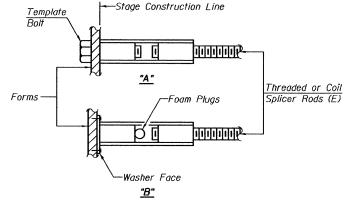
The diameter of this part is the same as the diameter ROLLED THREAD DOWEL BAR of the bar spliced.

11111

\*\* ONE PIECE --- Wire Connector WELDED SECTIONS

## BAR SPLICER ASSEMBLY ALTERNATIVES

\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



## INSTALLATION AND SETTING METHODS

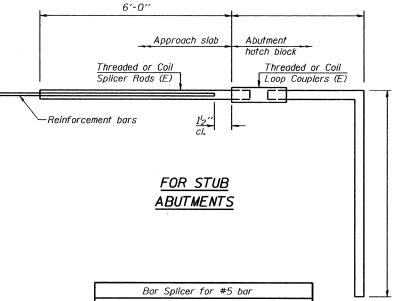
"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.

Bridge Deck Approach Slab Reinforcement Threaded or Coil Threaded or Coil Splicer Rods (E) Loop Couplers (E) Bars 4'-0" 6'-0"

## FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required = 0



Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required = 0

BSD-1

10-1-08

DATE: 11-06-2007